## What is claimed is:

- 1. A system for dynamically linking application code created by a programmer into a running operating system kernel, comprising:
  - an environment library comprising one or more routines for insulating the application code from the operating system environment and for implementing a uniform execution environment;
  - a build system for constructing a loadable module from the application code and the environment library;
  - an execution library comprising one or more routines for encapsulating the loadable module within a standard executable program, transparently loading the loadable module into the running operating system kernel, passing arguments to the loadable module, and terminating and unloading the loadable module after receiving a termination signal; and
  - a build system for constructing the standard executable program from the loadable module and the execution library.
- 2. The system of claim 1, further comprising an infrastructure library comprising one or more routines executed prior to loading the loadable module into the running operating system kernel and/or after unloading the loadable module from the kernel.

- 3. The system of claim 1, wherein the execution library includes one or more routines for setting up input/output channels.
- 4. The system of claim 1, wherein the executable program may be in several files or a single file.
- 5. A method, comprising: creating a loadable module; creating an executable program; and executing the executable program, wherein the executable program performs a method comprising the steps of:

setting up input/output channels;

inserting the loadable module into an operating system address space, wherein, once the loadable the module is inserted into the operating system address space, the loadable module begins to execute; and

waiting for the loadable module to connect via kernel/user channels and then connecting those kernel/user channels to the input/output channels.

6. The method of claim 5, wherein after the loadable module is inserted into the operating system address space the loadable module performs a method comprising the steps of:

creating kernel/user channels;
 creating a thread to execute the application
code; and

waiting for the thread to complete.

- 7. The method of claim 6, wherein the method performed by the loadable module further includes the step of freeing resources after the thread completes.
  - 8. A computer program embodied on a computer readable medium , the computer program comprising:
    - a computer code segment for insulating the application code from the operating system environment and for implementing a uniform execution environment;
    - a computer code segment for constructing a loadable module from the application code and the environment library;
    - a computer code segment for encapsulating the loadable module within a standard executable program, transparently loading the loadable module into the running operating system kernel, passing arguments to the loadable module, and terminating and unloading the loadable module after receiving a termination signal; and
    - a computer code segment for constructing the standard executable program from the loadable module and the execution library.

9. A for dynamically linking application code created by a programmer into a running operating system kernel, comprising:

means for insulating the application code from
the operating system environment and for
implementing a uniform execution environment;
means for constructing a loadable module from the
application code and the environment library;
means for encapsulating the loadable module
within a standard executable program,
transparently loading the loadable module into
the running operating system kernel, passing
arguments to the loadable module, and
terminating and unloading the loadable module
after receiving a termination signal; and
means for constructing the standard executable
program from the loadable module and the
execution library.